## Write algorithm for Lab1 here.

## Remember to follow the rules of what makes a good algorithm from Notes #2.

Algorithm

1. Output the purpose of the program.
2. Ask user to input seconds between birth.
3. Ask user to input seconds between death.
4. Ask user to input seconds between immigration.
5. Ask user to input current population.
6. Ask user to input years in future.
7. Calculate the number of seconds in a year and store it in a variable.
8. Calculate the population change, and store result in a variable. Use the formula “(Seconds per year/seconds between birth + seconds per year/seconds between immigration – seconds per year/seconds between death) \* years in future” to calculate for the population change.
9. Calculate the expected population in the future and output it as an integer. Use formula “(current population + population change)” to calculate future population. Keep results as floats until after the calculations have been performed.
10. If future population >= current population:
    1. Output “The total population has increased”
11. Else:
    1. Output “The total population has decreased.”